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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,158	07/22/2003	Jeffrey S. Bardsley	9407-2	7454
20792 7590 04/27/2007 MYERS BIGEL SIBLEY & SAJOVEC			EXAMINER	
PO BOX 37428	8		TOLENTINO, RODERICK	
RALEIGH, NC 27627			ART UNIT	PAPER NUMBER
			2134	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
	10/624,158	BARDSLEY ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Roderick Tolentino	2134				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period way reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 February 2007.						
· 2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL. 2b) This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
• • • • • • • • • • • • • • • • • • • •	6)⊠ Claim(s) <u>1-22</u> is/are rejected.					
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers		•				
9)☐ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>22 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	¥					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
•						
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:				
Paper No(s)/Mail Date <u>03/30/2007</u> .	5) L Juliel					

DETAILED ACTION

1. Claims 1 – 22 are pending.

Response to Arguments

Applicant's arguments filed 2/22/2007 have been fully considered but they are not persuasive.

Applicant argues, in regards to claims 1, 11 and 21, that Flowers in combination with Dahlstrom fails to teach, suggest or disclose, "receiving a TMV." Examiner respectfully disagrees. Dahlstrom teaches receiving a TMV including therein a first field that provides identification of at least one operating system type that is affected by a computer security threat, a second field that provides identification of an operating system release level for the operating system type and a third field that provides identification of a set of possible countermeasures for an operating system type (Dahlstrom, Paragraph 0006 and 0023 – 0026). Dahlstrom teaches that these records are received. In two forms the security vulnerability database would be able to receive product profiles. An organization sends product profiles and inherently the profiles in the database that will be used to compare the product profiles must have been received in some form and it is inherent that they were received from at least one source.

Further, with regards to claims 1, 11 and 21, applicant argues that there is no motivation to combine Flowers and Dahlstrom. Examiner respectfully disagrees. Both systems deal with detecting security vulnerabilities and, it would have been obvious to use Dahlstrom's system for determining security vulnerabilities with Flowers' method for

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detecting vulnerability in a network because it offers the advantage of properly having ways to fix detected vulnerabilities. Flowers identifies vulnerabilities but fails to find a fix for the vulnerabilities. Dahlstrom shows the best available fix for a detected vulnerability (Dahlstrom, Paragraph 0026).

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- 2. Applicant argues, in regards to claims 2 and 12, that Dahlstrom fails to teach, suggest or disclose a "TMV history file." Examiner respectfully disagrees. Flowers as modified teaches comprises receiving a TMV history file in response to installation, configuration or maintenance of the computer system (Dahlstrom, Paragraph 0018) and wherein the processing comprises processing countermeasures that are identified in the TMV history file (Dahlstrom, Paragraph 0006, record of fixes). Dahlstrom teaches a network being aware of its vulnerabilities after installations (Dahlstrom, Paragraph 0019), and further the product files are history files especially if they contain information regarding a best fix available solution.
- 3. Applicant argues, in regards to claims 3 and 13, the Dahlstrom fails to teach, suggest or disclose updating a threat management information base for the computer system to account for the countermeasures that are processed. Examiner respectfully disagrees. Dahlstrom teaches updating a threat management information base for the computer system to account for the countermeasures that are processed (Dahlstrom, Paragraphs 0027 and 0036). Dahlstrom teaches an update of security vulnerabilities and fixes, and it would be inherent that the countermeasures would have been processed at some point prior to be used to update a fixes list in a product record.

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4. Applicant argues, in regards to claims 4, 14 and 22, that Flowers fails to teach, suggest or discuss adding at least one instance identifier to the TMV to account for multiple instances of the operating system running on the computer system, if the TMV identifies the operating system type and operating system release level for the computer system as being affected by the computer security threat. Examiner respectfully disagrees. Flowers adding at least one instance identifier to the TMV to account for multiple instances of the operating system running on the computer system, if the TMV identifies the operating system type and operating system release level for the computer system as being affected by the computer security threat (Flowers, Col. 4 Lines 26 – 37). Flowers teaches identifying an operating system in the network, from here the network will identify the vulnerability condition to network based on this operating system. Flowers shows identifying an operating system and release level of the affected security threats.

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5. Applicant argues, in regards to claims 9 and 19 that Dahlstrom fails to teach, suggest or discuss the receiving comprises pruning at least some of the TMV to discard at least some of the TMV that is not needed for processing countermeasures. Examiner respectfully disagrees. Dahlstrom teaches the receiving comprises pruning at least some of the TMV to discard at least some of the TMV that is not needed for processing countermeasures (Dahlstrom, Paragraph 0027). Dahlstrom shows updating of product records, anyone of ordinary skill in the art would know that an update would delete old/discard old information and replace with new information. Thus at least some part of the record will be discarded when updated.

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Applicant argues, in regards to claims 10 and 20 that Dahlstrom fails to teach, suggest or discuss the receiving comprises mutating the TMV that is received to a format that is compatible with processing countermeasures. Examiner respectfully disagrees. Dahlstrom teaches the receiving comprises mutating the TMV that is received to a format that is compatible with processing countermeasures (Dahlstrom, Paragraph 0042). Dahlstrom teaches that not all records will have all the relevant data for its fields. Dahlstrom will account for additional information relevant to the record. This is form of mutating the record to work with the system.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Flowers et al. U.S. Patent No. (7,073,198) in view of Dahlstrom et al. U.S. PG-Publication No. (2004/0006704).
- 9. As per claims 1, 11 and 21, Flowers teaches establishing a baseline identification of an operating system type and an operating system release level for the computer system that is compatible with a Threat Management Vector (TMV) (Flowers, Col. 4 Lines 26 37) but fails to teach receiving a TMV including therein a first field that

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provides identification of at least one operating system type that is affected by a computer security threat, a second field that provides identification of an operating system release level for the operating system type and a third field that provides identification of a set of possible countermeasures for an operating system type and an operating system release level and processing countermeasures that are identified in the TMV if the TMV identifies the operating system type and operating system release level for the computer system as being affected by the computer security threat. However, in an analogous art Dahlstrom teaches receiving a TMV including therein a first field that provides identification of at least one operating system type that is affected by a computer security threat, a second field that provides identification of an operating system release level for the operating system type and a third field that provides identification of a set of possible countermeasures for an operating system type (Dahlstrom, Paragraph 0006) and an operating system release level and processing countermeasures that are identified in the TMV if the TMV identifies the operating system type and operating system release level for the computer system as being affected by the computer security threat (Dahlstrom, Paragraph 0042).

At the time the invention was made, it would have been obvious to use

Dahlstrom's system for determining security vulnerabilities with Flowers' method for

detecting vulnerability in a network because it offers the advantage of properly having
ways to fix detected vulnerabilities.

10. As per claims 2 and 12, Flowers as modified teaches comprises receiving a TMV history file in response to installation, configuration or maintenance of the computer

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system (Dahlstrom, Paragraph 0018) and wherein the processing comprises processing countermeasures that are identified in the TMV history file (Dahlstrom, Paragraph 0006, record of fixes).

- 11. As per claims 3 and 13, Flowers as modified teaches updating a threat management information base for the computer system to account for the countermeasures that are processed file (Dahlstrom, Paragraphs 0027 and 0036).
- 12. As per claims 4, 14 and 22, Flowers as modified teaches determining whether the TMV identifies the operating system type and operating system release level for the computer system as being affected by the computer security threat (Flowers, Col. 4 Lines 26 37) adding at least one instance identifier to the TMV to account for multiple instances of the operating system running on the computer system, if the TMV identifies the operating system type and operating system release level for the computer system as being affected by the computer security threat (Flowers, Col. 4 Lines 26 37) and processing countermeasures that are identified in the TMV for the instance of the operating system type and operating system release level when the instance of the operating system type and operating system release level is instantiated in the computer system (Dahlstrom, Paragraph 0042).
- 13. As per claims 5 and 15, Flowers as modified teaches the processing comprises installing and running the countermeasure (Dahlstrom, Paragraphs 0044 and 0042).
- 14. As per claims 6 and 16, Flowers as modified teaches wherein the receiving comprises receiving a TMV including therein the first field that provides identification of at least one operating system type that is affected by a computer security threat, the

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second field that provides identification of an operating system release level for the operating system type, a fourth field that provides identification of at least one application program type that is affected by the computer security threat and a fifth field that provides identification of a release level for the application program type, the third field providing identification of a set of possible countermeasures for the application program type and the application program release level (Flowers, Col. 4 Lines 26 – 37, identifies OS) and wherein the processing comprises processing countermeasures that are identified in the TMV if the TMV identifies the application program type and application program release level for the computer system as being affected by the computer security threat (Dahlstrom, Paragraph 0042, fixes).

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15. As per claims 7 and 17, Flowers as modified teaches determining whether the TMV identifies the application program type and application programming release level for the computer system as being affected by the computer security threat (Flowers, Col. 4 Lines 26 – 37, identifies OS), adding at least one instance identifier to the TMV to account for multiple instances of the application program running on the computer system if the TMV identifies the application program type and application program release level for the computer system as being affected by the computer security threat (Flowers, Col. 4 Lines 26 – 37) and processing countermeasures that are identified in the TMV for the instance of the application program type and application program release level when the instance of the application program type and application program release level is instantiated in the computer system (Dahlstrom, Paragraph 0042).

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- 16. As per claims 8 and 18, Flowers as modified teaches the set of possible countermeasures comprises an identification of a countermeasure mode of installation (Dahlstrom, Paragraphs 0044 and 0042).
- 17. As per claims 9 and 19, Flowers as modified teaches the receiving comprises pruning at least some of the TMV to discard at least some of the TMV that is not needed for processing countermeasures (Dahlstrom, Paragraph 0027).
- 18. As per claims 10 and 20, Flowers as modified teaches the receiving comprises mutating the TMV that is received to a format that is compatible with processing countermeasures (Dahlstrom, Paragraph 0042).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Tolentino whose telephone number is (571) 272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino Examiner Art Unit 2134

all The

KAMBIZ ZAND SUPERVISORY PATENT EXAMINER